

A1.  
B1  
wherein said [first and second] cold portion [portions]  
receives electrical power from an electrical power source for  
rapidly heating said inside tube.

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A2.  
B1  
19. A fluid heating system comprising:

a fluid heat exchanger defining a rapidly heatable inside  
tube;

a hollow outside [inside] tube surrounding said inside  
tube;

a fluid passing between said inside tube and said outside  
tube for circulation through said fluid heating system;

a temperature control system having at least one sensor  
located along said fluid heat exchanger in sensing communication  
with said fluid, said temperature control system controlling the  
operation of said heatable inside tube by regulating said fluid  
temperature within a predetermined range based on fluid  
temperature readings taken by said temperature control system;

wherein said inside tube is rapidly heated by said  
temperature control system such that said fluid is rapidly  
heated to within said predetermined range for use in said fluid  
heating system.

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#### REMARKS

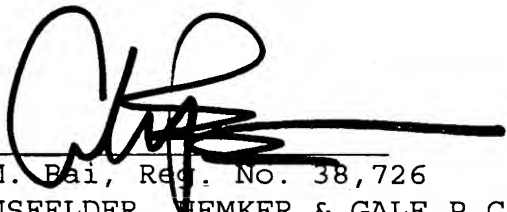
Claims 17 and 19 have been amended to better clarify and  
distinctly claim what the applicants consider as their  
invention. In particular, claim 17 has been amended to replace  
"first and second cold portions" with "cold portion" as well as  
replacing "inside and outside ends" with proximal and distal  
ends" throughout the claim. Further, claim 19 has been amended

to replace the term "inside" with "outside" in order to correctly recite the structural elements of the invention.

By present amendment, the applicants have amended claims 17 and 19 to specifically recite structural elements neither shown nor suggested in the prior art and to make clear the manner in which those elements cooperate to provide the unique advantages of the present invention. The applicants aver that no new matter is being introduced by virtue of the amendment to the claims and that proper antecedent basis is provided in the specification for these claims amendments. The Examiner is invited to call the undersigned attorney collect if he or she has any questions regarding this amendment.

Respectfully submitted,

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Date



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**Exhibit A – Marked up Version of Amended Claims**

**CLAIMS**

17. (Amended) The fluid heat exchanger according to claim 13 wherein said inside tube  
5 further comprises [first and second] a cold [portions] portion having opposed [inside] proximal  
and [outside] distal ends, said [outside] distal ends of said [first] cold portion [and said second  
cold portion] extending outwardly from opposing ends of said inside tube, said hot portion  
interposed between said [first and second] cold portion [portions] for connection with respective  
said [inside] proximal ends of said [first and second] cold portion [portions] within said inside  
10 tube;

wherein said [first and second] cold portion [portions] receives electrical power from an  
electrical power source for rapidly heating said inside tube.

15 19. (Amended) A fluid heating system comprising:  
a fluid heat exchanger defining a rapidly heatable inside tube;  
a hollow outside [inside] tube surrounding said inside tube;  
a fluid passing between said inside tube and said outside tube for circulation through said  
fluid heating system;  
20 a temperature control system having at least one sensor located along said fluid heat  
exchanger in sensing communication with said fluid, said temperature control system controlling  
the operation of said heatable inside tube by regulating said fluid temperature within a  
predetermined range based on fluid temperature readings taken by said temperature control  
system;  
25 wherein said inside tube is rapidly heated by said temperature control system such that  
said fluid is rapidly heated to within said predetermined range for use in said fluid heating  
system.